What is claimed is:

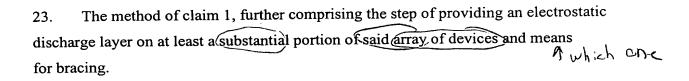
A method for stiffening or supporting foldable arrays of devices comprising the 1. steps of:

providing an arrangement of a plurality of devices having first sides and having second sides opposite said first sides;

connecting a first hinging means for bracing to a first side of a first device; and connecting a second hinging means for bracing to a first side of a second device.

- The method of claim 1, wherein said device comprises a device selected from the group consisting of an electrochemical device, an electronic device, electro-mechanical device, a bio-electric device, a bio-chemical device, a bio-mechanical device, and an an mechanical-chemical device.
 - The method of claim 2, wherein said electrochemical device comprises a thin-film 3. electrochemical device.
 - The method of claim 1, wherein said first device and said second device are adapted 4. to fold to at least an open and a collapsed position.
 - The method of claim 2, wherein said collapsed position comprises a position selected from a group consisting of an inwardly folded position and an outwardly folded position.
 - The method of claim 1, further comprising the step of connecting an edge stiffener to 6. a portion of an edge of one or more of said devices.
 - The method of claim 6, wherein said edge stiffener is adapted to provide 7. deployment force.
 - The method of claim 1, further comprising the step of connecting an edge stiffener 8. between a pair of said devices.
 - The method of claim 6, wherein said edge stiffener is adapted to situate a pair or more 9. of said devices in an open position.
 - The method of claim 1, further comprising the step of connecting a hinge between 10. said first device and said second device.

- 11. The method of claim 10, wherein said hinge comprises a hinge selected from the group consisting of a conventional hinge, a conventional hinge with integrated torsion spring, a polyimide fold, and a carpenter hinge.
- 12. The method of claim 10, wherein said hinge is adapted to situate a pair or more of said devices in an open position.
- 13. The method of claim 10, wherein said hinge is adapted to provide deployment force to said array.
- 14. The method of claim 1, wherein one or more of said devices is flexible.
- 15. The method of claim 1, wherein one or more of said devices is rigid.
- 16. The method of claim 1, wherein said plurality of devices comprises one or more devices selected from a group consisting of an inactive substrate, a solar energy cell, a direct conversion light antenna, and a radio-frequency identification tag.
- 17. The method of claim 16, wherein said solar energy cell comprises a thin-film photovoltaic cell.
- 18. The method of claim 17, wherein said thin-film photovoltaic cell comprises a copperindium-gallium-selenide cell.
- 19. The method of claim 1, wherein said arrangement of a plurality of devices comprises a plurality of devices arranged on a single substrate.
- 20. The method of claim 19, wherein said substrate is flexible.
- 21. The method of claim 1, wherein said arrangement comprises a grid-like array of devices.
- 22. The method of claim 1, further comprising the step of connecting a third hinging means for bracing to a device and to a hinging means for bracing, wherein a portion of said third hinging means for bracing is adapted to fold.



- 24. An apparatus for stiffening foldable arrays of devices comprising:
 an arrangement of a plurality of devices;
 a first brace member hingedly connected to a first device; and
 a second brace member hingedly connected to a second device and to said first brace member.
- 25. The apparatus of claim 24, wherein said device comprises a device selected from the group consisting of an electrochemical device, an electronic device, electro-mechanical device, a bio-electric device, a bio-chemical device, a bio-mechanical device, and are mechanical-chemical device.
- 26. The apparatus of claim 25, wherein said electrochemical device comprises a thin-film electrochemical device.
- 27. The apparatus of claim 24, wherein said first device and said second device are adapted to fold to at least an open and a collapsed position.
- 28. The apparatus of claim 27, wherein said collapsed position comprises a position selected from a group consisting of an inwardly folded position and an outwardly folded position.
- 29. The apparatus of claim 24, further comprising an edge stiffener at an edge of one or more of said devices.
- 30. The apparatus of claim 29, wherein said edge stiffener is adapted to situate a pair or more of said devices in an open position.
- 31. The apparatus of claim 24, further comprising an edge stiffener between a pair of said devices.
- 32. The apparatus of claim 24, further comprising a hinge connecting said first device and said second device.



- 33. The apparatus of claim 32, wherein said hinge comprises a hinge selected from the group consisting of a conventional hinge, a conventional hinge with integrated torsion spring, a polyimide fold, and a carpenter hinge.
- 34. The apparatus of claim 32, wherein said hinge is adapted to situate a pair or more of said devices in an open position.
- 35. The apparatus of claim 32, wherein said hinge is adapted to provide deployment force to said array.
- 36. The apparatus of claim 24, wherein one or more of said devices is flexible.
- 37. The apparatus of claim 24, wherein one or more of said devices is rigid.
- 38. The apparatus of claim 24, wherein said plurality of devices comprises one or more devices selected from a group consisting of an inactive substrate, a solar energy cell, a direct conversion light antenna, and a radio frequency identification tag.
- 39. The apparatus of claim 38, wherein said solar energy cell comprises a thin-film photovoltaic cell.
- 40. The apparatus of claim 39, wherein said thin-film photovoltaic cell comprises a copper-indium-gallium-selenide photovoltaic cell.
- 41. The apparatus of claim 24, wherein said arrangement of a plurality of devices comprises a plurality of devices arranged on a single substrate.
- 42. The apparatus of claim 41, wherein said substrate is flexible.
- 43. The apparatus of claim 24, wherein said arrangement comprises a grid-like array of devices.
- 44. The apparatus of claim 24, further comprising a third bracing member hingedly attached to a brace member and to a device, wherein said third bracing member comprises at least one foldable portion.
- 45. The apparatus of claim 24, further comprising an electrostatic discharge layer covering at least a substantial portion of said array of devices and brace members.

46. A method for integrating passive deployment of a plurality of devices comprising the steps of:

providing an arrangement of a plurality of devices, at least a portion of said devices being foldably attached to one another;

attaching a pair of hingedly connected bracing members to a pair of said foldably connected devices; and

attaching a means for situating a pair of said devices in an open position to a plurality of said devices.

- 47. The method of claim 46, wherein said means for situating comprise means selected from a group consisting of an edge stiffener, and a carpenter hinge.
- 48. An apparatus for integrated passive deployment comprising:

an arrangement of a plurality of devices, at least a portion of said devices being foldably attached to one another;

a pair of hingedly connected bracing members attached to a pair of said foldably connected devices; and

a means for situating a pair of said devices in an open position attached to a plurality of said devices.

- 49. The apparatus of claim 48, wherein said means for situating comprise means selected from a group consisting of an edge stiffener, and a carpenter hinge.
- 50. A method for integrating cabling with stiffening or supporting means comprising the steps of:

providing an arrangement of a plurality of devices, at least a portion of said devices being foldably attached to one another; and

attaching a pair of hingedly connected bracing members to a pair of said foldably attached devices.

- 51. The method of claim 50, wherein said pair of hingedly connected bracing members comprises means for transmitting electricity.
- 52. The method of claim 51, wherein said means for transmitting electricity comprises means for transmitting electrical energy to or from a power source.

- 53. The method of claim 51, wherein said means for transmitting electricity comprises means for communicating an electric signal.
- 54. The method of claim 51, wherein said means for transmitting electricity comprises flex circuit technology.
- 55. The method of claim 51, further comprising one or more electronic circuit selected from the group consisting of a filter circuit, a boost circuit, a transformer circuit, an amplifier circuit, and an automatic bypass circuit.
- 56. An apparatus for integrated cabling with stiffening or supporting means comprising: an arrangement of a plurality of devices, at least a portion of said devices being foldably attached to one another; and

a pair of hingedly connected bracing members attached to a pair of said foldab. attached devices.

- 57. The apparatus of claim 56, wherein said pair of hingedly connected bracing members comprises means for transmitting electricity.
- 58. The apparatus of claim 57, wherein said means for transmitting electricity comprises means for transmitting electrical energy to or from a power source.
- 59. The apparatus of claim 57, wherein said means for transmitting electricity comprises means for communicating an electric signal.
- 60. The apparatus of claim 57, wherein said means for transmitting electricity comprises flex circuit technology.
- 61. The apparatus of claim 57, further comprising one or more electronic circuit selected from the group consisting of a filter circuit, a boost circuit, a transformer circuit, an amplifier circuit, and an automatic bypass circuit.
- 62. A method for manufacturing a deployable array of devices comprising the steps of: providing an arrangement of a plurality of devices, at least a portion of said devices being foldably attached to one another;

attaching at least a pair of hingedly connected bracing members to at least a pair of

said foldably attached devices; and

collapsing said arrangement of a plurality of devices and said pair of hingedly connected bracing members.

- 63. The method of claim 62, wherein said step of collapsing comprises at least one step of folding.
- 64. The method of claim 63, further comprising at least one step of rolling after said at least one step of folding.
- 65. An apparatus for use as a deployable array of devices comprising:

an arrangement of a plurality of devices, at least a portion of said devices being foldably attached to one another; and

at least a pair of hingedly connected bracing members attached to at least a pair of said foldably connected devices, wherein said arrangement of a plurality of devices and said pair of hingedly connected bracing members is collapsed.

- 66. The apparatus of claim 65, wherein said arrangement of a plurality of devices and said pair of hingedly connected bracing members is collapsed using a collapsing technique employing at least one step of folding.
- 67. The apparatus of claim 66, wherein said collapsing technique further comprises at least one step of rolling.